Application No.: 10/817,653

Amendment dated: May 16, 2005

Reply to Office Action of February 14, 2005

Listing of the Claims:

Claims 1 to 10 (cancelled).

Claims 11 to 19 (previously cancelled).

20. (currently amended) A composite object comprising a non-magnetic substrate

having at least one surface to which is directly adhered a printed layer of a radiation cured magnetic

resin, [said-radiation-cured-magnetic resin comprising-50 to 95 weight-%-of-magnetic-particles

having an average size within the range of 1µ to 200µ, dispersed within 50 to 5 weight % of a

radiation cured resin] wherein the composite object is formed by the process of claim 30.

21. (currently amended) The composite object of claim 20, wherein the magnetic

particles [having] have an average size within the range of 10 \mu to 80 \mu.

22. (currently amended) The composite object of claim 21, wherein the magnetic

particles [having] have an average size within the range of 20µ to 70µ.

23. (original) The composite object of claim 20, wherein the layer of the radiation

curable magnetic coating composition has a thickness within the range of 0.4 mils to 20 mils upon

curing.

24. (currently amended) The composite object of claim 20, wherein the non-magnetic

substrate is selected from [the group consisting of] paper, cardboard, wood ceramic, plastic,

aluminum and combinations thereof.

The composite object of claim 24, wherein the non-magnetic substrate 25. (original)

is paper.

The composite object of claim 24, wherein the non-magnetic substrate 26. (original)

is cardboard.

2

Application No.: 10/817,653 Amendment dated: May 16, 2005

Reply to Office Action of February 14, 2005

- 27. (original) The composite object of claim 25, wherein the paper is a sheet of paper having opposite sides.
- 28. (original) The composite object of claim 27, wherein at least one side of the sheet of paper has printing or indicia.
- 29. (original) The composite object of claim 28, wherein the side of the sheet of paper that is opposite the layer of radiation cured magnetic resin has printing or indicia thereon.
- 30. (new) A process for making composite bonded magnets by in-line printing comprising
- A. combining from 50 to 95 weight % of magnetic particles having an average particle size ranging from 1 micron (μ) to 200 μ , in combination with 50 to 5 weight % of a radiation curable resin and an effective amount of a photo inhibitor to form an in-line printing composition, said composition having a viscosity within the range of 50 cps to 10,000 cps when used in an inline printing process;
 - B. in-line printing said composition on one surface of a non-magnetic substrate;
- C. curing said composition by applying UV radiation to the coating to effect the radiation cure of said composition and thereby form a laminated product having a magnetic coating composition adhered to one surface thereof; and
 - D. magnetically charging the magnetic particles.
- 31. (new) The process of claim 30, wherein the composition has a viscosity in the range of 50 cps to 4,000 cps.
- 32. (new) The process of claim 30, which further includes a step of printing said non-magnetic substrate on the surface of the non-magnetic substrate not coated with a magnetic composition.
- 33. (new) The process of claim 30, wherein the radiation curable resin utilizes a free radical cure system, a cationic cure system or a hybrid free radical/cationic cure system.

Application No.: 10/817,653 Amendment dated: May 16, 2005

Reply to Office Action of February 14, 2005

34. (new) The process of claim 30, wherein the free-radical cure system employs an acrylate, a methacrylate or a combination thereof.

- 35. (new) The process of claim 30, wherein the radiation curable resinutilizes a cationic cure system.
- 36. (new) The process of claim 30, wherein the cationic cure system employs an epoxide resin or a polyol resin.
- 37. (new) The process of claim 30, wherein the non-magnetic substrate is selected from paper, cardboard, wood, ceramic, plastic, aluminum and combinations thereof.
- 38. (new) The process of claim 37, wherein the paper is a sheet of paper having opposing sides.
- 39. (new) The process of claim 38, wherein at least one side of the sheet of paper has printing or indicia.
- 40. (new) The process of claim 39, wherein the side of the sheet of paper that is opposite the layer of the radiation cured magnetic resin has printing or indicia thereon.